

The Saturn V (5) lift-off, the Moon, footprint in the lunar surface, and the crew of Apollo XI (11) - Neil Armstrong, Michael Collins and Edwin 'Buzz' Aldrin.

The Apollo Project began in July 1960, when NASA announced that a program to fly astronauts around the Moon would follow the planned Mercury and Gemini program. With President Kennedy's famous speech on May 25, 1961, the focus shifted to a lunar landing with the concrete goal of achieving this before the end of the decade.

The Apollo program included uncrewed test missions and 11 crewed missions. These included two Earth orbiting missions, two lunar orbiting missions, a lunar swingby and six Moon landings. Apollo started in tragedy, when a fire on the launch pad in the Command Module of Apollo 1 claimed the lives of Virgil I. "Gus" Grissom, Edward White, and rookie astronaut Roger Chaffee on January 27, 1967.

Apollo 7, tested the Command Module, and 9, tested the Lunar Module, both were Earth orbiting missions. Apollo 8 and 10 tested various components while orbiting the Moon. Apollo 13 did not land on the lunar surface due to a malfunction, and used the Moon's gravity to return the crew to Earth. Apollos 11, 12, 14-17 were crewed landing missions.

Apollo missions were launched atop two different boosters, the Saturn 1B used for the Earth orbiting missions (including Skylab and Apollo-Soyuz), and the gigantic, 110-metre tall, Saturn V (5), the rocket to the Moon.

The spacecraft was in three parts: The conical Command Module where the crew ate and slept; the Service Module, supplying electricity, maneuvering power and thrust to get home from lunar orbit, and water to the spacecraft; and the Lunar Module, or LM, a two-part, totally self-contained spacecraft that used its own rockets to land on and take off from the surface of the Moon.

Canberra Space Centre



One sma ne giant leap

Apollo 7	Astronauts Walter M. Schirra, Jr. Don F. Eisele Walter Cunningham
8	Frank Borman James A. Lovell, Jr. William A. Anders
9	James A. McDivitt David R. Scott Russell R. Schweika
10	Thomas P. Stafford John W. Young Eugene A. Cernan
11	Neil A. Armstrong Michael Collins Edwin E. "Buzz" Aldr
12	Charles "Pete" Conr. Richard F. Gordon, J Alan L. Bean
13	James A. Lovell, Jr. Fred W. Haise, Jr. John L. Sweigert. Jr.
14	Alan B. Shepard, Jr. Stuart A. Roosa Edgar D. Mitchell
15	David R. Scott James B. Irwin Alfred M. Worden

Jollins	M:	July 20, 1969
"Buzz" Aldrin	S:	July 24, 1969
Pete" Conrad	L:	November 14,
Gordon, Jr.	M:	November 18,
ean	S:	November 24,
Lovell, Jr.	L:	April 11, 1970
Haise, Jr.	M:	Did not land
Sweigert. Jr.	S:	April 17, 1970
hepard, Jr.	L:	January 31, 19
Roosa	M:	February 3, 19
Mitchell	S:	February 9, 19
Scott	L:	July 26, 1971
Irwin	M:	July 30, 1971
Worden	S:	August 7, 1971
Young	L:	April 16, 1972
K. Mattingly II	M:	April 20, 1972
4. Duke, Jr.	S:	April 27, 1972
A. Cernan	L:	December 7, 1
. Evan	M:	December 11,
H. Schmitt	S:	December 19,
on Landing S: S	Splas	shdown CM: Co

Schirra, Jr.

John W. Young

Thomas K. Matting Charles M. Duke,

Eugene A. Cernan

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L: M: S:	Dates October 11, 1968 Earth orbit only October 22, 1968
L:	December 21, 1968
M:	Earth orbit only
S:	December 27, 1968
L:	March 3, 1969
M:	Earth orbit only
S:	March 13, 1969
L:	May 18, 1969
M:	Earth orbit only
S:	May 26, 1969
L:	July 16, 1969
M:	July 20, 1969
S:	July 24, 1969
L:	November 14, 1969
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ecember 7, 1972 ecember 11, 1972 ecember 19, 1972

Dress rehearsal of Moon mission. Came within 10kms of surface. First Moon landing. 12:56pm (Sydney time) July 21st in Australia. Second mission, with pin-point landing near Surveyor 3 spaceprobe. Explosion of oxygen tank prevented landing. Crew returned safely to Earth. Third manned mission landed and carried out extensive experiments.

Highlight

Test of CM in Earth orbit

10 orbits around Moon

Test of LM in Earth orbit

First mission to use the Lunar Rover. Lunai geology featured heavily. Fifth Moon landing. Included use of Rover.

Last Moon mission (to date). First scientist astronaut on Moon.

L: Launch M: Moon Landin lown CM: Command Module LM: Lunar Module

Neil Armstrong stepped onto the Moon's surface, left foot first, leaving an imprint of his boot in the lunar dust to be the first person to walk on the Moon.

Millions of people around the world watched and heard him make the historic statement, 'That's one small step for man, one giant leap for mankind.'



The television shots were transmitted around the world via a system linking the Australian tracking stations at Parkes and Honeysuckle Creek.

Honeysuckle Creek tracking station

Twelve men in all walked on the Moon. The last three missions featured the Lunar Rover, which permitted the astronauts to drive about and explore various terrain. On the last Apollo mission, astronauts spent three days on the Moon, including 22 hours in moon walks.

Total funding for the Apollo program (1965-1972) was about US\$19.5 billion.

Information on Apollo can be found at: http://www.ksc.nasa.gov/history/apollo/apollo.html

Concerned about a hoax? Learn the facts: www.badastronomy.com/bad/tv/foxapollo.html www.redzero.demon.co.uk/moonhoax